Format No: CP/TF/01

TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-13** **Date: 08-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-13 /02(a)
Sample Type	:	40mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 40MM DOWN COARSE AGGREGATE:

Total weight taken : **15000** **grams**

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	80 mm	0	0	0.0	100	100
2	40 mm	214	214	1.4	98.6	90-100
3	20 mm	7254	7468	49.8	50.2	30-70
4	10 mm	4442	11910	79.4	20.6	10-35
5	4.75 mm	2685	14595	97.3	2.7	0-5
6	Pan	405	15000	100.0	0	---

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-05-13** **Date: 08-03-18**

Sample ID No : 2018-03-05-13 /02(a)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.3	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	10.6	
3	Specific Gravity	2.62	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.53	–
6	Water Absorption(%)	0.19	–

Note:
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TEST REPORT ON COARSE AGGREGATES

Lab ID	:	**CP-2018-03-05-13** **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-13 /02(b)
Sample Type/ Size	:	20mm down size coarse aggregate
Reference to BIS codes	:	IS: 383:2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1,3,4) RA2011 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption IS 2386 Part 4: Mechanical Properties
Date of test	:	05-03-18

SIEVE ANALYSIS (PARTICLE SIZE DISTRIBUTION) OF 20MM DOWN COARSE AGGREGATE:

Total weight taken : 5000 grams

Sample No.	Sieve No.	Weight Retained in gms	Cumulative Weight Retained in gms	% Cumulative Weight Retained	% Passing	Required as per IS 383:2016
1	40 mm	0	0	0	100	100
2	20 mm	108	108	2.2	97.8	90-100
3	10 mm	3218	3326	66.5	33.5	25-55
4	4.75 mm	1457	4783	95.7	4.3	0-10
5	Pan	217	5000	100	0	–

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TEST REPORT ON COARSE AGGREGATES

Lab ID : **CP-2018-03-05-13** **Date: 07-03-18**

Sample ID No : 2018-03-05-13 /02(b)

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS:383-2016
1	Flakiness Index(%)	11.7	Combined Flakiness & Elongation Index Shall not Exceed 40% for Uncrushed & Crushed Aggregate
2	Elongation Index(%)	12.5	
3	Specific Gravity	2.63	–
4	Bulk Density(Loose) (Kg/l)	1.48	–
5	Bulk Density(Compacted) (Kg/l)	1.55	–
6	Water Absorption(%)	0.23	–
7	Aggregate crushing Value(%)	23.7	Max 30% for Aggregates to be used in concrete for wearing Surface, In case Aggregate Crushing Value Exceeds 30% then the test for ten percent fines should be conducted for Aggregates to be used in concrete other than for wearing Surface.
8	Aggregate Impact Value(%)	22.8	30% for Aggregates to be used in concrete for wearing Surface, 45% for Aggregates to be used in concrete other than for wearing Surface.

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Format No: CP/TF/01

TEST REPORT OF FINE AGGREGATE

Lab ID	:	**CP-2018-03-05-13** **Date: 07-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-13 /03
Sample Type	:	Fine Aggregate
Reference to BIS codes	:	IS 383 : 2016 (Specification for Coarse and fine Aggregates) IS: 2386 :1963(Part - 1, 3) RA2012 IS 2386 Part 1: Particle Size and Shape IS 2386 Part 3: Specific gravity, Density, Voids,Water Absorption
Date of test	:	05-03-18
Total weight taken	:	1000 grams

Sl.no	Sieve Size	Weight Retained (gms)	Cumulative Weight Retained (gms)	% Cumulative Weight Retained	% Passing	Requirement as per IS 383:2016			
						Grading Zone I	Grading Zone II	Grading Zone III	Grading Zone IV
1	10 mm	0	0	0.0	100.0	100	100	100	100
2	4.75 mm	42	42	4.2	95.8	90-100	90-100	90-100	95-100
3	2.36 mm	162	204	20.4	79.6	60-95	75-100	85-100	95-100
4	1.18 mm	234	438	43.8	56.2	30-70	55-90	75-100	90-100
5	600 micron	197	635	63.5	36.5	15-34	35-59	60-79	80-100
6	300 micron	127	762	76.2	23.8	5-20	8-30	12-40	15-50
7	150 micron	158	920	92.0	8.0	0-10	0-10	0-10	0-15
8	Pan	80	1000	100.0	0.0	---	---	---	---

Result :The tested Sample Conforms to Grading Zone II

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TEST REPORT OF FINE AGGREGATE

Lab ID : CP-2018-03-05-13 **Date: 07-03-18**

Sample ID No : 2018-03-05-13 /03

PHYSICAL PROPERTIES

Sl.no	Tests	Result	Requirements as per IS 383:2016
1	Water Absorption(%)	1.48	–
2	Specific Gravity	2.53	–
3	Material finer than 75 micron(%)	7.1	Uncrushed fine Aggregate Max 3%, Crushed Fine aggregate Max 15%, Mixed Fine aggregate Max 12%, Manufactured Fine aggregate Max 10%

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Quality Manager

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TEST REPORT OF PHYSICAL PROPERTIES OF CEMENT - 53 Grade

Lab ID	:	CP-2018-03-05-13 **Date: 03-04-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	05-03-18
Sample ID No	:	2018-03-05-13 /01
Sample Type	:	Birla Super 53grade
Reference to BIS codes	:	IS 12269 : 2013, 53 Grade Ordinary Portland cement Specification , IS 4031 Part 4, Determination of Consistency of Standard Cement Paste, Clause 5 IS 4031 Part 6, Determination of Compressive Strength, Clause 6
Date of test	:	06-03-18
Environmental Conditions during test	:	Temperature: 26°C Humidity: 72%

Compressive Strength

Sl.No.	Physical properties	Results	Requirement as per IS 12269: 2013
1	3 Days	28.5N/mm^2	Not less than 27 N/mm^2
2	7 Days	38.0N/mm^2	Not less than 37 N/mm^2
3	28 Days	55.5N/mm^2	Not less than 53 N/mm^2

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TEST REPORT OF CEMENT CONCRETE CUBES

Lab ID	:	**CP-2018-03-10-06** **Date: 14/03/2018**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-03-18
Sample ID No	:	2018-03-10-06 /01
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Date of test	:	14/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	07/03/2018	14/03/2018	150.47 X 150.82 X 150.22	22694	8.176	383.5	16.9	17.3
2	RMC	M20	07/03/2018	14/03/2018	150.72 X 150.38 X 150.83	22665	8.192	389.8	17.2	
3	RMC	M20	07/03/2018	14/03/2018	150.22 X 150.37 X 150.82	22589	8.135	399.8	17.7	

Note:
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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 14/03/2018

Lab ID	:	CP-2018-03-10-06
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer's Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	10-03-18
Sample ID No	:	2018-03-10-06 /03
Customer ID	:	RMC
Sample Type /Size	:	150X150X150 mm
Sample grade/Age	:	M20 / 7 Days Compressive Strength
Reference to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl 5
Date of test	:	14/03/2018

Sl. No.	Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
1	RMC	M20	07/03/2018	14/03/2018	151.04 X 151.22 X 149.72	22840	8.108	386.0	16.9	17.3
2	RMC	M20	07/03/2018	14/03/2018	151.55 X 150.62 X 150.86	22826	8.176	397.2	17.4	
3	RMC	M20	07/03/2018	14/03/2018	150.67 X 150.52 X 150.87	22679	8.116	399.1	17.6	

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DETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

Lab ID	:	**CP-RW-2018-03-08-13** **Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-18
Sample ID No	:	2018-03-08-13/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	08-03-18

Result:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	10.2%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	11.7%	
Combined Flakiness and Elongation Index for WMM	21.9%	

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TEST REPORT OF CEMENT CONCRETE KERB STONE

Lab ID : CP-2018-03-05-13 **Date: 10-03-18**

Customer : Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.

Address : Yelahanka Sub division, BBMP, Bangalore.

Project Name : Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.

Agency : Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64

Customer's Reference : EE(YNK.D)E-PMT-14/W.O/141/2017-18

Source of Sample : Sample supplied by Agency

Sample Condition : Satisfactory

Date of Receipt : 05-03-18

Sample ID No : 2018-03-05-13 /04

Sample Type /Size : CC Kerb Stone/ 450*165*400mm

Reference to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete

Date of test : 06/03/2018

Sl. No.	Identification Mark	Diameter of the core	Height of the core	Weight of the core	Area	Failure Load	Core Compressive strength	Corrected Cylinder Compressive strength	Equivalent Cube Compressive strength
		(mm)	(mm)	Kg	(Sq.mm)	(KN)	(N/mm2)	(N/mm2)	(N/mm2)
1	A	100.03	165.51	2.864	7857	152.4	19.4	19.4	24.2
2	B	100.05	165.52	2.793	7860	149.9	19.1	19.1	23.8
3	C	100.01	165.49	2.815	7854	151.2	19.3	19.3	24.1

Note:

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TEST RESULTS OF GRADATION FOR WMM

Lab ID	:	**CP-RW-2018-03-08-13** **Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-18
Sample ID No	:	2018-03-08-13/01
Type of Mix	:	WMM (Wet Mix Macadam)
Date of test	:	08-03-18
Oven Dry Weight	:	11000 Grams

IS Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	202	202	1.8	98.2	95-100
22.4	2275	2477	22.5	77.5	60-80
11.2	2758	5235	47.6	52.4	40-60
4.75	2378	7613	69.2	30.8	25-40
2.36	1499	9112	82.8	17.2	15-30
0.6	598	9710	88.3	11.7	8-22
0.075	1089	10799	98.2	1.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE

IS: 2386 Part IV

Lab ID	:	**CP-RW-2018-03-08-13** **Date: 10-03-18**
Customer	:	Assistant Executive Engineer, Yelahanka Sub division, BBMP, Bangalore.
Address	:	Yelahanka Sub division, BBMP, Bangalore.
Project Name	:	Improvements to footpath and providing cobble stones at Yelahanka new town 5th phase MIG block in ward No.02 of Yelahanka Sub Division.
Agency	:	Sri.Sridhar.Y.R No:987, O.M.S. Road ,Yelahanka, Bangalore-64
Customer Reference	:	EE(YNK.D)E-PMT-14/W.O/141/2017-18
Source of Sample	:	Sample supplied by Agency
Sample Condition	:	Satisfactory
Date of Receipt	:	08-03-18
Sample ID No	:	2018-03-08-13/01
Type of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)
Date of test	:	08-03-18

SLNo	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	305.0	305.0
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	86.0	80.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	218.7	224.5
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.3	0.5
5	Aggregate impact value	(B/A)*100	28.2	26.2
6	Aggregate impact value (Mean of two tests)	Pecentage	27.2	

Note:-

The results pertain to the samples received and tested.
All information Furnished by Customer/ Representative
Any correction in the report will make this report invalid.
This report without prior written approval should not be reproduced or published in full or part.
Samples will be disposed after 90 days from the date of issue of test certificate

AE-2
A.E.E
AE-02

FOR CIVIL Pro.
R KARTHIK RECHAN
Authorized Signatory
Quality Manager

CIVIL Pro Sig..... Date..... BANGALORE

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End of Report